

# PATENT ABSTRACTS OF JAPAN

(11)Publication number : 59-186498

(43)Date of publication of application : 23.10.1984

---

(51)Int.Cl. H04R 1/40

(21)Application number : 58-061139 (71)Applicant : NIPPON COLUMBIA CO LTD

(22)Date of filing : 07.04.1983 (72)Inventor : KAWAOMO HISASHI

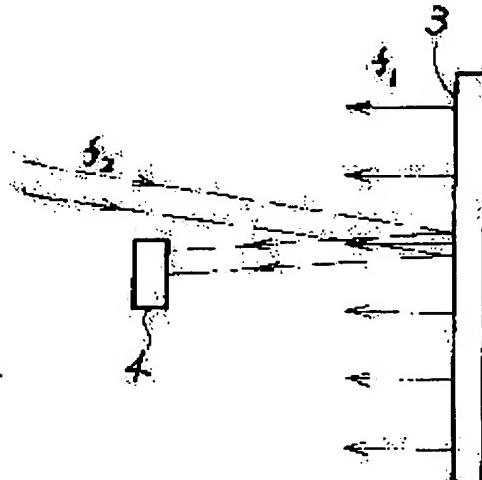
---

## (54) PARAMETRIC ARRAY MICROPHONE

### (57)Abstract:

PURPOSE: To make a transmitter large enough to obtain necessary acoustic power and to obtain an excellent signal-to-noise ratio by obtaining a maximum detection output when a signal arrives from a receiver side.

CONSTITUTION: A signal wave  $f_2$  enters from the side of the receiver 4 and is reflected by the transmitter 3 to cause non-linear interference with an ultrasonic wave  $f_1$  from the transmitter, so that it is caught by the receiver 4. The receiver 4 is sufficiently reducible in size and the arrival signal is never masked as a result. A signal arriving from the transmitter side is unnecessary, so the transmitter is made larger enough to generate an ultrasonic wave having a necessary level; and the excellent signal-to-noise ratio is obtained and the minimum frequency of a signal to be detected depends upon the size of the transmitter, so the size should be large enough.



---

### LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than